Forestry Canada Forêts Canada

Canadian Committee on Forest Fire Management
Comité canadien de gestion des feux de forêt

Proceedings of the Fortieth Annual Meeting

Canadian Committee on Forest Fire Management

Ottawa, Ontario
January 29 - 31, 1992

Canada

93-00215/

PROCEEDINGS

Fortieth Annual Meeting

CANADIAN COMMITTEE ON FOREST FIRE MANAGEMENT

Ottawa, Ontario
January 29 - 31, 1992

ATTENDANCE

Fortieth Annual Meeting

Canadian Committee on Forest Fire Management

January 29 - 31, 1992

Ottawa, Ontario

Members Present:

R.R. Lafferty	(Chair)	Council of Forest Industries of B.C.
J.D. McAskill	(Vice Chair)	Prince Edward Island
J.E. Benson	(Exec.Member)	Alberta
P. Taudin-Chabot (for J.P. Dunlop)	(Exec.Member)	British Columbia
D.E. Dubé	(Exec.Member)	Forestry Canada
S.G. Poulin	(Exec.Secretary)	
R.P. Bailey		Northwest Territories
R.H. Bishop		Ontario Forest Industries
M.G. Blouin		Canadian Forestry Association
M.H. Fisher		Manitoba
C.A. Jeffrey		Canadian Interagency Forest Fire Centre
K.E. Kepke		Yukon
F. Lefebvre		Fédération des Sociétés de Conservation du Québec
N. Loupoukhine		Canadian Parks Service
A.G. Mann		Canadian Forestry Technical School
W. Martin		Newfoundland
E.M. MacAulay		Nova Scotia
D. McCormack		New Brunswick
B.J. Stocks		Forestry Canada
P.M. Woodard		Canadian Forest Universities
T. Woods		Ontario

Members Absent:

A.J. Macauley	Saskatchewan
R.M. Proulx	Québec

U.S. Guests:

R.L. Barkow	U.S. Dept. of the Interior - Bureau of Land Management
W.T. Sommers	U.S. Dept. of Agriculture - Forest Service
D. Stauber	U.S. Dept. of Agriculture - Forest Service

Observers Present:

J. Ferrary	Advanced Amphibious Aircraft
B. Hadden	Forestry Canada, Ottawa
T. Johnston	Canadian Interagency Forest Fire Centre
B. Lawson	Forestry Canada, Pacific Forestry Centre
B. Lee	Forestry Canada, NWR Forestry Centre
R. McAlpine	Forestry Canada, PNFI
G. Ramsey	Forestry Canada, PNFI
Dr. A. Simard	Forestry Canada, Ottawa
I. Sneddon	Indian and Northern Affairs Canada
P. Ward	Ontario Ministry of Natural Resources
Dr. M. Weber	Forestry Canada, PNFI
S. Woodley	Parks Canada, Ottawa

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PROCEEDINGS

Fortieth Annual Meeting

CANADIAN COMMITTEE ON FOREST FIRE MANAGEMENT
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1. Introductory Remarks

Mr. Lafferty, Chair, welcomed members and their guests, the new executive secretary and observers to the Fortieth Annual General Meeting of the Canadian Committee on Forest Fire Management (CCFFM). "This is a new beginning - lets make the most of it".

The Chair described the "new beginning" procedure and the Committee's new relationship with the Canadian Council of Forest Deputy Ministers (CCFDM). Recognition was given to Dan McAskill, Vice-Chair and Al Jeffrey, Director Canadian Interagency Forest Fire Centre (CIFFC) for helping to develop the July presentation to the CCFDM in Montebello, Québec.

The Chair thanked all members for using the "briefing note" to prepare their Deputy Ministers for the important presentation at Montebello.

The Chair reenforced the CCFFM's commitment to use the 1991 strategic planning process and asked members to review items 10,11, and 23, Appendix II and VII of the 1991 CCFFM Annual General Meeting (AGM) Minutes .

Intense planning and organization are in the past . The future appears to be clear for action and the committee should get on with it's mission, which is: "to promote, coordinate and support effective research and technology transfer programs in forest fire management in Canada".

Agenda Changes

Gaston Guay's presentation on " Ivory Coast Forestry " was cancelled. Remaining agenda stayed the same with minor time changes.

2. 1991/92 Budget Report

John Benson reported that the CCFFM has spent approximately $25,000.00 of the $30,000.00 budgeted. The following suggestions were presented to allocate the remaining funds prior to March 31/92.

1. Prepare brochures, advertisements and articles on the CCFFM for public relations purposes.
2. Use it to make sure that CCFFM has representation at different meetings such as: The North American Forestry Commission (NAFC) Fire Management Study Group.
3. Purchase CCFFM pins.
4. Return remaining money back to Forestry Canada.

These suggestions were referred back to Communication and Membership Subcommittee for review. It was noted that returning some of the funds to Forestry Canada would be good fiscal management.

3. 1992/93 Budget

A budget committee was established to develop and present a budget proposal for the 1992/93 fiscal year. Phil Taudin-Chabot will chair the committee with Al Jeffrey and Dan McAskill assisting. They are to present their proposal to the membership prior to the close of business.

The operating budget is estimated at $30,000.00 and has been approved by the CCFDM. Monies are derived from members based on the CIFFC funding formula. Members are charged a minimum of $100.00 annually for membership fee.

4. Canadian Council of Forest Deputy Ministers Meeting

CCFFM presented a operating proposal to the Deputy Ministers Meeting in Montebello, Québec July 9-10, 1991. The Deputy Ministers agreed to:

1. Sanction the CCFFM
2. Approve the CCFFM budget (estimate $30,000.00 per year)
3. Endorse fire research issues emanating from the CCFFM.

The Deputy Ministers did caution the committee on two items, namely:

1. To maintain the budget at or below $30,000.00 during these difficult economic times.
2. To reduce expenses by reducing travel expenses through joint meetings and air excursion rates where possible.

5. CCFDM Briefing Note

The Communication and Membership Subcommittee were delegated the responsibility of preparing a briefing package and submitting it to the Executive. It is then to be forwarded to all agencies so that they can brief their respective Deputy Ministers prior to the spring CCFDM meeting (June or July, 1992).

Briefing notes are to identify the CCFFM progress over the year, identify research and development issues and give an overview of next year's operating agenda.

The Chair, or his designate is to table the CCFFM AGM proceedings for approval at the Deputy Ministers spring meeting.

6. CCFFM Executive 1992/93

Effective April 1, 1992 the following will be the new Executive of the CCFFM.

Dan McAskill - Chair
John Benson - Vice-Chair
Jim Dunlop - Executive Member
Wayne Martin - Executive Member
Al Simard - Executive Member, Forestry Canada Liaison
Serge Poulin - Executive Secretary

7. CIFFC/CCFFM Meetings

John Benson presented a rational to hold consecutive CIFFC and CCFFM meeting as many of the members attend both. This will save costs as requested by the Deputy Ministers.

The question of who will pay membership fees and who will be funded for Executive travel was discussed. The question was referred back to the Executive to make a final decision and to report back to members through the next Executive minutes.

It was **MOVED** by Trevor Woods and **SECONDED** by Wayne Martin that the CIFFC and CCFFM Annual Meeting be held consecutively on a trial basis lasting four days total, in November 1992 in Winnipeg , with the intent that in 1993 the meetings would be held in Prince Edward Island and in 1994 in Winnipeg.

CARRIED

8. Delivery of Administrative Services for the CCFFM

Al Jeffrey advised the committee that CIFFC will provide secretarial and accounting services under agreement with the CCFFM for $8,500.00. The CCFFM will be run by the Executive as it has always been.

CIFFC will keep separate accounts and records of all transactions, and provide CCFFM with the necessary reports. The CCFFM Executive will receive quarterly budget reports to monitor cash flow and the funds received, spent, and remaining. A separate saving account will be established for CCFFM within CIFFC's accounting system so that respective committee finances can be kept separate. CCFFM's audit will be done in conjunction with CIFFC's. The Chair, or in his absence, the Vice-Chair of the CCFFM shall authorize all expenditures before they are paid.

9. Directory of Forest Fire Management Personnel

A general discussion on the directory and its use as a communications vehicle led to the following motions.

> It was **MOVED** by Paul Woodard and **SECONDED** by Ed MacAulay that the Mission Statement, Task Groups, Working Group, and List of Publication be included in the directory as recommended by Dan McAskill.

CARRIED

Al Jeffrey presented a proposal to revise the format for the Directory of Forest Fire Management Personnel. The new format will use generic fire management section headings which will help in locating people of similar sphere of duties in different agencies. The smaller fonts and double column will greatly reduce the size.

> It was **MOVED** by Ed MacAulay and **SECONDED** by Dan McAskill that the new directory format presented by Al Jeffrey be accepted.

CARRIED

> It was **MOVED** by Ed MacAulay and **SECONDED** by Dennis Dubé that the CCFFM explore an appropriate charge for cost recovery on a listing basis for listings in the non-member Private Industries section of the 1993 directory.

CARRIED

The Executive Committee will develop guidelines on how to implement the latter resolution.

10. Reports on loss of Forest Fire Research

As requested during the 1991 CCFFM meeting, the Chair wrote letters to J.C. Mercier (Deputy Minister, For.Can) and Boyd Case (Director General, PNFI) to express CCFFM's concern with the loss of fire suppression research at PNFI. Replies were received from Mr. Mercier and Mr. Case indicating that although our concern was considered, that the fire suppression research program would not be reinstated at PNFI.

Strong concern was expressed on the reduction in funding of Fire Research in Canada. Some agencies and research advisory groups have been unable to have fire research placed very high on their priority list. There is a requirement for the CCFFM to take a more active role and be the catalyst for research advisory in Canada. Through the Executive and Committee task groups, the Committee will become more involved and ensure this topic is a regular agenda item.

11. Resolutions at the WFC/NWFC concerning Canada

At the Western Forestry and Conservation Association Northwest Fire Council combined meeting in Victoria on December 3, 1991 a resolution was passed supporting the continuation and upgrading of fire research in Canada.

Resolutions were:

91-1 - Fire Danger Rating System
91-5 - Fire Suppression Research Information Class A Foam
91-10 - Smoke Effect on Firefighters

These were referred to the CCFFM Executive for action.

Resolution are enclosed as *Appendix I*

12. National Forest Sector Strategy (NFSS)

In the National Forest Sector Strategy Draft, there is little mention of forest fire research. The needs to respond to this oversight was confirmed. Phil Taudin-Chabot, Dan McAskill and Trevor Woods were assigned to draft a letter proposing changes to the draft strategy. This letter was later received and approved by the CCFFM. The Chair sent it to the National Forest Strategy Steering Committee on January 31, 1992.

Letter is enclosed as *Appendix II.*

Glen Blouin, Canadian Forestry Association, gave a presentation on the preparation of the National Forest Strategies. He said that the National Forest Congress will meet in Ottawa on March 2 - 4, 1992 to finalize the process.

13. Communication and Membership Subcommittee Report

The Communication and Membership Subcommittee Report was presented by Phil Taudin-Chabot.

Communication and Membership report is enclosed as *Appendix III.*

Membership

It was **MOVED** by Dan McAskill and **SECONDED** by John Benson that the CCFFM membership remain at twenty-two and that requests to join be reviewed based on who would be appropriate to help expand forest fire research in Canada.

CARRIED

The above motion does not preclude other interest groups from making presentations to the AGM, or CCFFM from sending a delegate to other meetings to make presentations.

Canadian Forestry Association (CFA)

Glen Blouin expressed some concern that since the CFA is a national non-profit charitable organization, the CFA Executive may have reservations regarding an annual CCFFM membership fee of $100.00. The Chair noted that their would be no exceptions to the rule concerning membership dues; however, the Committee supports CFA membership on the Committee and encourage Glen Blouin to convince his Executive to pay the minimum membership fee of $100.00.

Communications

It was suggested that the Communication and Membership Subcommittee be delegated the task of distributing CCFFM information to appropriate agencies for inclusion in their newsletters and to editors of other publications such as Smoke Signals. By the same token agencies that produce publications should submit them to the CCFFM.

A Press Release drafted by the Communication and Membership Subcommittee was approved by the CCFFM and transmitted to the Canadian Press for release in Ottawa on January 30, 1992.

The Press Release is enclosed as *Appendix IV*.

Communication Needs:

Communications needs and outlets are suggested below:

1. Annual Briefing Notes to Deputy Ministers
2. Common CCFFM article in all agency internal publications
3. Review use of Smoke Signals
4. Directory: Include CCFFM mandate and develop a list of Research contacts
5. Brochure describing CCFFM: Mandate, Participants, Research
6. Canadian Institute of Forestry (CIF) newsletter, Canadian Forestry Association (CFA) member newsletter, Canadian Pulp and Paper Association (CPPA) newsletter etc...

Serge Poulin shall obtain a mailing list from Gord Ramsey. All members are to forward the names of appropriate newsletters to the Communication and Membership Subcommittee.

Membership in Subcommittee 1992/93

Effective April 1, 1992 the Communication and Membership Subcommittee will be comprised of:

Wayne Martin - Chair
Keith Kepke - YT
Al Simard - FC
Phil Taudin-Chabot - BC

14. International Association of Arson Investigators (IAAI) May 1992

Wayne Fisher and Kim Mann will draft a letter showing support from CCFFM to the IAAI and also indicate similar initiatives concerning wildland arson that are happening in other Canadian agencies. The letter will be sent under the Chair's signature with a copy to Wayne Fisher, Manitoba. The Committee encourages Dave Pervis (Manitoba) attendance at the IAAI meeting and would appreciate a report on that meeting at our November AGM in Winnipeg.

15. Education Subcommittee Report

The Education Subcommittee Report presented by John Benson was on "A Summary of Forest Fire-Related Activities by Forestry Schools across Canada".

The presentation is enclosed as *Appendix V.*

It was **MOVED** by Dan McAskill and **SECONDED** by Kim Mann that the Education Subcommittee write an article for publication in the Forestry Chronicle relating the concerns of CCFFM on the level of Fire Education in Canada.

It was **MOVED** by Ed MacAulay and **SECONDED** by Kim Mann that the motion be amended to indicate that the article also be directed to the Dean's of Forestry Faculties.

CARRIED

The original motion was carried as amended. It was recommended that this article should be part of the presentation at the Ministers meeting in June. The Executive is to clarify the results of curriculum committee action taken last spring and to investigate the potential of utilizing an approach to the academic accreditation committee.

16. North American Forestry Commission(NAFC), Fire Management Study Group

Dennis Dubé, Canadian Forestry representative, reported on the twenty-fifth meeting of Fire Management Study Group held in San Bernardino, California in September, 1991. R.R. Lafferty and J.D. McAskill represented the CCFFM and Al Jeffrey represented CIFFC.

Action Items

1. Meeting between US - Mexico delegations to develop some criteria for International Fire Management Award.
2. US - Mexico initiative on technical exchange being discussed and Jesus Sanchez interested in development of advanced technical course.
3. BC will be hosting six Mexicans fire fighter trainees.
4. Forest Fire News - Committee wants to continue with this issue publication and Canada is responsible to support it.
5. Food and Agriculture Organization (FAO) glossary - Spanish, French, English glossary has been deferred.

17. **Fire Stop III**

Gord Ramsey presented the background on Fire Stop III and the possibility of Canadian involvement in it. Fire Stop III is scheduled for 1995 in California.

The Fire Stop III handout is enclosed as *Appendix VI*.

It was **MOVED** by Dan McAskill and **SECONDED** by Al Jeffrey that the CCFFM support Fire Stop III and that Gord Ramsey be designated to represent the CCFFM on the Fire Stop III Steering Committee. There is no commitment of 1992-93 funds by the CCFFM at this time.

CARRIED

18. **Forest Fire Equipment Working Group (FFEWG) Report**

Wayne Martin, Chair of the Working Group, reported on three items:

1. Structure, Organization, and Terms of Reference of the working Group
2. Work Plan
3. Proposed Budget 1992/93

It was **MOVED** by Wayne Martin and **SECONDED** by Trevor Woods that the name Forest Fire Equipment Working Group be adopted.

CARRIED

It was **MOVED** by Wayne Martin and **SECONDED** by ED MacAulay that under the "Role of FFEWG Chair" that a "period" be placed after, "To assist in the development of a proposed work plan".

CARRIED

It was **MOVED** by Wayne Martin and **SECONDED** by Keith Kepke that under the heading of Membership in the statement " Membership on the FFEWG" the word "on" be changed to "in".

CARRIED

It was **MOVED** by Paul Woodard and **SECONDED** by Ed MacAulay that under the heading "Role of Coordinator" the words "as assigned" be added after: "To represent Working Group at other National and International Meetings".

CARRIED

It was **MOVED** by Wayne Martin and **SECONDED** by Keith Kepke that the "Membership in FFEWG" be approved as presented.

CARRIED

NOTE - That it is the representative responsibility to ensure the information gathered at the FFEWG meeting is transmitted to the agencies he represents.

It was **MOVED** by Wayne Martin and **SECONDED** by Nik Loupoukhine that the FFEWG Meeting Rotation Schedule be approved as written.

CARRIED

It was **MOVED** by Wayne Martin and **SECONDED** by Ed MacAulay that the "Terms of Reference" be adopted as written.

CARRIED

Forest Fire Equipment Working Group Structure, Organization, and Terms of Reference are enclosed as *Appendix VII.*

FFEWG - Work Plan

Wayne Martin, Chair of the FFEWG, utilized the Strategic Directions and the Implementation Plan Priorities to present the work plan developed at the Fall meeting in Nova Scotia. A copy of the 1992/93 FFEWG Work Plan was distributed to all members prior to the AGM.

Work Plan item #6 - That the "Equipment Needs Survey" be expanded to include all CCFFM members.

The work plan was approved in principle pending budget motions and tasks arising from research needs analysis.

Forest Fire Equipment Working Group Work Plan is enclosed as *Appendix VIII*

FFEWG Budget Proposal 1992/93

It was **MOVED** by Wayne Martin and **SECONDED** by Phil Taudin-Chabot that the 1992/93 FFEWG Budget Proposal be referred to the Budget Committee for review and action.

CARRIED

19. Research Development and Technology Transfer Subcommittee (RDTTS)

Dan McAskill, Chair of RDTTS presented the RDTTS report and included a draft terms of reference.

It was **MOVED** by Dan McAskill and **SECONDED** by Bob Bailey that the "Terms of Reference" of the RDTTS be adopted as presented.

CARRIED

RDTTS Terms of Reference are enclosed as *Appendix IX*.

RDTTS Research Priority Needs

Dan McAskill, Chair of the RDTTS presented a report on the 1991 research needs based on the 1990 Member Reports. Anomalies were noted. A general discussion followed and a consensus was reached on amendments to the wording. At a later period, the 1992 Research Needs Report was presented and it was consistent with the 1991 Research Needs Report.

RDTTS priority needs are enclosed as *Appendix X*.

It was **MOVED** by Dan McAskill and **SECONDED** by Kim Mann that the RDTTS be mandated to establish two or three tasks groups from within the membership, to address research need priorities 1-3, namely:

1) Fire behaviour, especially fine tuning of the spread rate equations to specific regions and fuels types.
2) Forest Fire Economics; benefit, cost analysis of fire suppression, etc..
3) Foam use guidelines.

CARRIED

20. United States Department of the Interior Bureau of Land Management Research Activities (USDI BLM)

Lee Barkow made a presentation on the Initial Attack Management System (IAMS) and the Incident Network (INCINET).
IAMS, began in 1982 in the States with the goal of reducing suppression cost by 50% by keeping fires to 10 acres or less in size. The system integrates the automatic lighting detection system and the remote automatic weather station with other information for successful initial attack operations.

INCINET, was designed to integrate database of Logistics, Plans and Finances into the current Incident Command System (ICS) and transmit through telecommunications exchange with other computer systems databases.

Descriptions of IAMS and INCINET are enclosed in the Exchange of Information Report.

21. United States Department of Agriculture Forest Service (USDA FS)

Boise Interagency Fire Center

Dick Stauber, Director, United States Forest Service, Boise Interagency Fire Center presented a general over view of the 1991 United States Calendar Year Report and also presented a slide show on his trip to the Union of Soviet Socialist Republic.

The 1991 United States Calendar Year Report is enclosed in the Exchange of Information.

22. USDA Forest Service Research, Washington, D.C.

Bill Sommers, Director of Forest Fire and Atmospheric Sciences Research gave a very informative presentation on, Issues for the Nineties. It was noted that Canadian and US fire research personnel have, and will continue to work closely on common interest forest fire research issues.

23. Canadian Interagency Forest Fire Centre

Al Jeffrey reported on some of the programs that CIFFC is currently involved in, some of which have been appointed by the Ministers.

1. CL215T Program - Directed by the Ministers to develop a needs scenario to identify concerns with the current fleet and develop financial options to implement the needs.
2. Tracker Conversion Program - Twenty-four military trackers have been acquired through Conair and with Western Diversification funding for conversion into air tankers. The project is currently on hold due to the current economic climate.
3. National Personnel Exchange Standards - Exchange standard are being developed for the following positions as directed by the Directors:
   1) Initial Attack Crewleader
   2) Sustained Action Crewleader
   3) Fire Boss
   4) Fire Behaviour Officer

4. Interagency Fire Training - CIFFC support's the initiative shown by Hinton Forest School in the development toward Interagency Fire Courses.
5. Intelligence Dissemination - CIFFC continue to fulfil it mandate to collect and disseminate Fire Intelligence.
6. Resource Exchanges - CIFFC continue to coordinate the movement of all Fire Management Resources nationally and internationally.

1992 Australian Fire Management Study Tour

Al Jeffrey, CIFFC, and Rick Clevette, BC, will represent Canada on the 1992 Australian Fire Management Study Tour. The tour will be for a five weeks period (February to March, 1992). Other Canadian delegates had to withdraw due to funding cut backs.

24. National Forestry Database Program (NFDP)

Brian Hadden, Coordinator National Forest Statistics Projects, Policy and Economic Directorate gave a presentation on the National Forestry Database Program

The National Forestry Database Program is enclosed in the Exchange of Information Report.

Gord Ramsey, PNFI will ensure that the data questionnaire is complete and to continue to cooperate in accumulating pertinent fire data for the database program.

25. Canadian Parks Service

Nik Loupoukhine, Acting Director Natural Resource Branch, National Parks made a presentation on Parks Canada Green Plan proposal which included fire management needs. The proposal dealt with resource enhancement of manpower, coordinated fire operations, the movement toward national standards in training and equipment, and utilizing fire as a management tool to maintain ecological integrity. This plan will be developed over a six years period.

26. Advanced Amphibious Aircraft

J.F. Ferrary gave a presentation on a conceptual amphibious type fire bomber and peripheral vision horizontal display. A prospectus was distributed at the meeting. He requested suggestions and comments from members. Chair noted that it is encouraging to have a company visualizing new concepts for fire fighting aircraft.

27. Canadian Universities

Paul Woodard gave a presentation on the Forest Fire Research and Training Activities occurring at universities with forestry and fire management curriculum. Paul also discussed possible source of revenue for research if CCFFM could identify specific needs and approach agencies that have the same needs or agencies that are directly involved such as: "The Medical Research Council for smoke management issues".

28. Forestry Canada

The following presentations were given and well received:

1. Frontier Lake Experiment - Mike Weber, PNFI
2. Fire Research Projects - Brain Lawson, Pacific Forestry Centre
3. Infrared on Bird Dog A/C - Bryan Lee, NWR Forestry Centre
4. Fire Study Areas - Bryan Stocks, Great Lakes Forestry Centre
5. MetaFire - Al Simard, Forestry Canada, Ottawa

Forestry Canada presentations are enclosed in the Exchange of Information.

29. Research Development and Technology Transfer Subcommittee Tasks Groups 1992-93 Initiative Report

Dan McAskill presented this report.

The following task groups and Chair's have been created to address the issues arising out of the 1991 and 1992 RDTTS Research Needs Report.

1. Spread Rate Equation and Fire Behaviour Research - Trevor Woods, Chair, ON
2. Forest Fire Economics - Al Simard, Chair, FC
3. Forest Fire Foam Research - Bob Bailey, Chair, NT

Task Groups are to report back to the committee at the November CCFFM AGM in Winnipeg. Their recommendations will help CCFFM develop fire research priorities and establish work priorities for the upcoming year.

The following task has been assigned to the FFEWG and will form a part of their Work Plan.

> "Support the CCFFM Task Groups by supplying information to the Project Leaders as required".

30. CCFFM Executive and Tasks Groups

The Executive will look at the Process used for the rotational sequence of personnel through the subcommittees to ensure continued communication through transition.

31. CCFFM Budget 1992/93

Phil Taudin-Chabot presented a draft 1992/93 CCFFM budget.

It was **MOVED** by Glen Blouin and **SECONDED** by Dan McAskill that the 1992/93 CCFFM budget be approved as presented by Phil Taudin-Chabot.

CARRIED

The 1992-1993 Budget is enclosed as AppendixXI.

32. CIFFC/CCFFM Meeting

Al Jeffrey recommended that the dates of the sequential CIFFC/CCFFM Meeting be Nov. 17 - 20, 1992 inclusive in Winnipeg. The CCFFM Executive and Al Jeffrey will develop a joint agenda for the meeting.

The Chair of the CCFFM thanked all for the excellent cooperation shown to him over his two term in the Chair. The CCFFM has gone through a period of great change for the better and he was glad to be a part of it.

At 12:00 January 31, 1992 it was **MOVED** by Al Jeffrey and **SECONDED** by Kim Mann that the meeting be adjourned.

CARRIED

Randy R. Lafferty
Chair

Serge Poulin
Executive Secretary

APPENDIX I

RESOLUTIONS AT THE WFC/NWFC CONCERNING CANADA

RESOLUTION 91-1

FIRE DANGER RATING SYSTEMS

WHEREAS much duplication of effort has taken place with each country developing their own fire danger rating system; and

WHEREAS fire danger characteristics are the same throughout North America; and

WHEREAS fire agencies continue to exchange resources and personnel throughout North America;

NOW THEREFORE BE IT RESOLVED THAT: the Western Forestry and Conservation Association request and endorse the development of a common North American fire danger rating system.

Adopted by the Western Forestry and Conservation Association Membership on December 4, 1991 in Victoria, British Columbia.

TO: Deputy Minister, Forestry Canada
Chief, U.S. Department of Agriculture Forest Service
Chairman, National Wildfire Coordinating Group
President, National Association of State Foresters
Chairman, Canadian Committee Forest Fire Management
Chairman, Fire Management Study Group of the North American Forestry Council

RESOLUTION 91-5

FIRE SUPPRESSION RESEARCH INTO CLASS A FOAM
QUANTITATIVE EVALUATION OF ENHANCED WATER FIRE SUPPRESSION

WHEREAS fire occurrence and loss of property and resources have steadily risen in the last five consecutive years in North America; and

WHEREAS traditional plain water fire suppression means have proven to be ineffective in fires such as the recent Berkeley and Oakland urban interface firestorms; and

WHEREAS experience with Class A Foam indicates it is highly effective and efficient in reducing rekindles, protecting exposures and suppressing smoke and fire; and

WHEREAS little is known of the mechanism of Class A Foam fire suppression, and the optimum suppression technique and rate of application; and

WHEREAS no full-scale quantitative evaluation of the effectiveness of Class A Foam fire suppression systems has yet been undertaken; and

WHEREAS economic and resource losses will likely be significantly reduced if advanced technology is adopted in fire control; and

WHEREAS to meet the above needs, a joint Canadian/USA applied research project, Quantitative Evaluation of Enhanced Water Fire Suppression has just begun with Canadian FRDA (Forest Resource Development Agreement) seed funding and support from industry; and

WHEREAS further funding is needed to complete the project; and

WHEREAS it would be false economy in view of the small cost and the large potential saving for the project not to be completed.

NOW THEREFORE BE IT RESOLVED THAT: this Conference confirms the need for urgent completion of the above mentioned project and urges all relevant agencies to cooperate to ensure that the project is immediately and adequately funded so that preliminary results can be announced to the fire suppression industry in 1992;

AND FURTHERMORE: that research immediately commence to quantitatively evaluate Class A Foam fire suppression systems for the wildland and urban firefighter.

Adopted by Western Fire Committee on December 4, 1991 in Victoria, BC.

TO:

United States:

USDA Forest Service
USDI Bureau of Land Management
President, NFPA
Congressman Kurt Weldon
California Governor Pete Wilson
International Association of Fire Chiefs
National Association of State Foresters
National Wildfire Coordinating Group

Canada

Minister of Forests, copy DM JC Mercier (Canada)
Minister of Defense
Emergency Preparedness Canada
Canadian Manufacturers Association
Canadian Committee on Forest Fire Management
Canadian Committee of Forest Deputy Ministers

British Columbia

B.C. Fire Commissions Office
Attorney General's Office
Minister of Forests
Provincial Emergency Program
Council of Forest Industries
Director Justice Institute

RESOLUTION 91-10

SMOKE EFFECTS ON FIREFIGHTERS

WHEREAS managers and firefighters have expressed concern on short and long term health impacts from exposure to smoke; and

WHEREAS firefighter's exposure to smoke may exceed safe worker exposure limits; and

WHEREAS understanding and quantifying the detrimental effects of prolonged exposure to smoke from wildfires and prescribed fires is essential in enabling the fire agencies to protect the long term health of firefighters; and

WHEREAS if wildfire and prescribed fire smoke exposures are proven to have detrimental effects on the health of firefighters, public agency workers compensation liabilities continue to grow until effective protective or monitoring measures are identified and implemented to limit exposures;

NOW THEREFORE BE IT RESOLVED THAT: the Western Forestry and Conservation Association acknowledges the continuing concern for smoke exposure and urges continuation and completion of scientific studies that will lead to a comprehensive risk assessment to provide appropriate management practices to include acceptable protective and monitoring measures.

Adopted by the Western Forestry and Conservation Association on December 5, 1991 in Victoria, British Columbia.

APPENDIX II

NATIONAL FOREST SECTOR STRATEGY

January 31, 1992

Mr. Dale Stewart
c/o Andre Rousseau
19th Floor
Place Vincent Massey
Hull, Quebec

Dear Mr. Stewart:

RE: Sustainable Forests: A Canadian Commitment - Draft 2

I am writing to you on behalf of the Canadian Committee on Forest Fire Management (CCFFM), the organization committed to the promotion, coordination and support of effective research and technology transfer programs in forest fire management. The CCFFM operates under the direction of the Canadian Council of Forest Ministers.

Draft #2 of the paper entitled "Sustainable Forests: A Canadian Commitment" was reviewed this week at our 40th annual meeting and we feel that a number of changes should be made to the draft to address concerns related to the use, control and impacts of fires in Canadian forests. These concerns relate directly to the multiple values our forests have and the decision making processes we must collectively make to improve the commitments to sustainable forests in Canada.

The CCFFM urges the steering team to split forest protection into two separate sections, namely: Forest Fire Management and Insect and Disease Control. Proposed wording for the Forest Fire Management Section is as follows:

C. Fire Management

Each year, wildfires burn an average of 2,100,00 ha. in Canada. Fire is part of the natural life cycle of forests but poses a threat to commercial wood supplies, rural communities, recreation areas and some wildlife. The size and remoteness of Canada's forests makes detection and control of these fires difficult. As well, an increase in human settlement and recreation in forested areas presents an additional demand on forest fire management resources and requires that fire managers develop new strategies to reduce losses from these wildfires.

During 1990, there were more than 10,000 forest fires in Canada as a result of both natural and human causes. Detection and suppression of these wildfires represents one of the biggest mobilizations of human and technical resources in fire fighting anywhere in the world. As a result, Canada is a leader in the development of fire detection, control systems and equipment. Canadian water bombers, for example, are used to fight fires around the world and Canada is in the forefront in developing computer systems to aid in detecting and suppressing forest fires.

Canada is also a leader in fire behaviour research and the use of prescribed fire to reduce fuel hazards, to promote forest regeneration and to maintain wildlife habitat. The new demands being placed on our forests require continuing research and development of new strategies to control damaging wildfire while utilizing the natural role of fire to maintain ecosystem health.

To reduce fire losses and manage the economic, social and ecological impacts of fire:

- **Each jurisdiction will strive to improve its individual fire management capabilities and to strengthen Canada's existing internationally recognized cooperative fire management programs and resource sharing.**

- **Each jurisdiction will strive to determine appropriate levels of protection from wildfire while recognizing the role fire plays in maintaining natural processes and ecosystem diversity.**

- **Existing cooperative arrangements between research and operational fire management organizations will be enhanced to carry out high priority research, development and technology transfer programs related to the roles of fire in our forests.**

The Insect and Disease Control section could be covered by an opening paragraph, preceding paragraphs 3 and 4 and 2 to 4 of Draft #2, and a few minor wording changes to remove references to fire management from within the Insect and Disease section.

...3

Other changes the CCFFM recommends include:

a) adding the words "including fire and pest management" to point #1 on page 24;

b) adding the words "and marketing of" after "development" in point #3 on page 28;

c) adding a point #4 on page 28, "the economic opportunities of education in fire management and associated technology will be developed", as part of Research and Development.

d) adding a point #5 on page 30, "they will be encouraged to utilize acknowledged Canadian expertise to develop forest fire risk abatement programs", under Forest Based Communities.

Forest Fire Management in Canada annually costs over $400,000,000. These large expenditures have led Canada's forest fire management and research organizations to adopt internationally recognized cooperative systems for sharing equipment, aircraft and personnel through the Canadian Interagency Forest Fire Centre. It has also led to increased efforts to coordinate research, development and technology transfer through the Canadian Committee on Forest Fire Management. These changes to draft #2 of "Sustainable Forests: A Canadian Commitment" will aid us in accomplishing its strategic goals.

If you have any questions on these recommendations, please contact either myself at 604-755-3500 or Dan McAskill at 902-368-4802.

Yours sincerely,

RANDY LAFFERTY
Chairman, CCFFM

DAN McASKILL
Vice-Chairman,
CCFFM

cc: Andre Rousseau
Peter Murphy

APPENDIX III

COMMUNICATION AND MEMBERSHIP SUBCOMMITTEE REPORT

REPORT TO THE CANADIAN COMMITTEE ON FOREST FIRE MANAGEMENT

MEMBERSHIP AND COMMUNICATION

BACKGROUND:

Up to fiscal year, 1991 / 92, the Canadian Committee on Forest Fire Management was sponsored and supported by the National Research Council. This is no longer the case. The Committee is now undergoing a transition period.

The current membership of the committee, in view of this transition, requested that the current member of the Executive responsible for Membership and Communication, Jim Dunlop (Director of Protection, British Columbia) canvas members regarding their views on future membership. A questionnaire was developed and distributed to all Committee members in December, 1991. A supplemental questionnaire regarding communication was included.

Currently there are 22 members on the Committee. All provinces and territories are represented. To that is added a representative of Canada Parks Service, the Canadian Forestry Association, representatives of the forest industry of B.C. and Ontario, Canadian Forest Universities, Canadian Forest Technical Schools, the Canadian Interagency Forest Fire Centre and 2 members of Forestry Canada, one of which is a permanent member of the Executive.

GENERAL:

A total of 15 members (69%) responded to the questionnaire. As expected, there was a wide variety of responses. However, general consensus was identified. Some members, identified issues which will be of interest to the committee. The membership has more concerns regarding communications issues than membership. Clearly, improvement is needed in this area.

Some members chose to answer only a portion of the questions asked; therefore it is not appropriate to assume that the percentages provided are a true indication of the opinions of the entire membership.

MEMBERSHIP

A. MEMBERSHIP NUMBERS TO REMAIN THE SAME

1. 60% of the members wish to see the membership remain the same as at present.

2. 73% stated that the present mix is satisfactory.

B. MEMBERSHIP NUMBERS TO INCREASE

1. 62% do not wish to see any increase in membership.

2. Those that recommended an increase mentioned a marginal increase of 1 to 3 members; a few felt that an increase of up to 10 was warranted.

C. MEMBERSHIP NUMBERS DECREASE

1. Only one member (7%) of those who answered this part of the questionnaire felt that there should be a decrease in membership.

   The key points of those who recommended change are:

   a) Provision for membership for the new Iniuit nation in the north east portion or the Northwest Territories when this new area is officially proclaimed.

   b) Inclusion of a representative of native indians (First Nations) for Canada.

   c) The inclusion of environmental agencies.

   d) Additional membership from the forest industry; it is felt that representation of only B.C. and Ontario is not adequate.

   e) The addition of one member of FRACC.

   f) A representative of the Fire Chiefs Association of Canada, (interface issues).

   g) Representatives from the electronics and air industry.

   h) One member suggested that if any person representing a group demonstrated the ability to improve the committee's effectiveness they should be asked to join.

COMMUNICATIONS

A. ANNUAL MEETING / PROCEEDINGS

1. 64% of the members who responded to this portion of the questionnaire indicated that they were not satisfied with the level of communication and information.

3. 71% of the membership who replied believe that the proceedings of the annual meeting was adequate but an additional communication vehicle was necessary.

B. INTERNAL COMMUNICATIONS

1. 93% wanted additional information regarding research activities

   53% were interested in research contacts

   66% wanted information regarding fire management issues

   53% wanted more information regarding fire management activities

   66% were interested in new equipment

   80% were interested in new technology in fire suppression

   66% wanted more information regarding new technology in prescribed fire

2. 74% felt that the annual meeting was appropriate

   86%, however, felt that the publishing of an annual newsletter would be useful

C. EXTERNAL COMMUNICATIONS

1. about 50% felt that it is necessary to provide information regarding the Committee's objectives, activities, accomplishments, purpose and results

2. 26% felt that information should be forwarded to government resource departments

   40% suggested information be provided to senior government decision makers (FRACC ?)

   26% recommended that information go to the general public

   20% felt that the information should go to the forest industry

   6% recommended information be provided to universities

3. While there was no firm consensus the forums (methods) of communication included news letters, editorials, news releases, news bulletins and meetings with senior management. A newsletter appeared to be the most popular approach.

4. Recommendations for Communications Improvements included:

   a newsletter (mentioned previously) report from the Committee Executive

   an update of current research activities including results

   an information update at least once a year (in addition to the annual proceedings)

   a supplemental seminar dealing only with fire prevention

   a belief that the Executive Committee (and membership) be more active throughout the year as opposed to just only attending the annual meeting

   one member asked if the Committee membership is a National Fire Management Organization or just a society of fire professionals

In summary, at least a portion of the membership recommended improvement in communications.

DRAFT PRESS RELEASE

THE 40TH ANNUAL MEETING OF THE CANADIAN COMMITTEE ON FOREST FIRE MANAGEMENT TO TAKE PLACE IN OTTAWA

The 40th Annual Meeting of the Canadian Committee on Forest Fire Management, to be hosted by Forestry Canada, will meet in Ottawa on January ___ and ____, 1992.

The Committee consists of senior forest fire management personnel from all provinces and territories, Forestry Canada and the Canadian Parks Service, forest industry, Canadian forest universities and technical schools, the Canadian Interagency Forest Fire Centre and the Canadian Forestry Association.

The first meeting of the committee also took place in Ottawa in 1952. At that time fire management officials met to discuss forest fire issues of mutual concern throughout Canada, to foster information and technology exchange and to identify fire research issues. Their efforts in these areas have been extremely successful. Annual meetings have continued ever since.

One of the major accomplishments of the Committee was assistance and support in the development the Canadian Interagency Forest Fire Centre in Winnipeg. This small fire suppression group coordinates the formal sharing of fire suppression personnel and equipment when any agency encounters a serious outbreak of forest fires. As Canada seldom has fire outbreaks at the same time the movement of personnel and equipment does not place undue risk on the agency providing the resources. By sharing resources throughout Canada hundreds of thousands of tax dollars are saved annually.

Another key issue that is always of concern to fire managers is in the field of fire management research. The Canadian Committee on Forest Fire Management identifies research issues and recommends priorities in order avoid duplication of effort. In many instances funds are provided by both the federal and provincial governments in order to achieve mutual goals. Fire management research programs and results will be of primary importance to all members.

CCFFM ACCOMPLISHMENTS 1952 to 1990

1. Developed the design parameters for the CL215.
2. Provided a forum for forest fire information exchange between the Provinces, Federal Agencies, Industry, Universities, Technical Schools, and Forestry Associations.
3. Assisted in the Development of the Canadian Interagency Forest Fire Centre to facilitate resource exchanges so as to reduce the cost of equipment caches and water bomber fleets.
4. Initiated the development of specifications for the hand tools and other equipment.
5. Acted as a Forum for the Exchange of Information on Training.
6. Developed the Directory of Forest Fire Personnel.
7. Developed the Glossary of Terms.
8. Taught the instructor training course to firefighting agencies across Canada to improve their training capability and gave the instructor training procedures and study guides to the Sir Sanford Flemming University.
9. Introduced the Incident Command System to Canada.
10. Organized and hosted Forest Fire Prevention Seminars.
11. Established the need for improvements in pumps and hose that led Ron Charolton leaving the CCFFM and purchasing what became WAJAX.
12. Developed the Canada/USA agreements on Research and Operations.
13. Developed and hosted air attach seminars.
14. Provided technology transfer on Forest Fire Foam Research and Equipment Developments.
15. Standardized Forest Fire Hose Couplings.
16. Provided the best venge of National Forest Fire Statistics in Canada and published an annual report on Forest Fire Information for 39 years.
17. Provided a Forum for the improvement of the Canadian Forest Fire Danger Rating System to better meet the operational needs of agencies.
18. Facilitated the rapid development, improvement, and net working of lightning detection systems, high level infra-red scanning, and remote weather stations.
19. Provided resources through its member agencies for the CFDA project in China and the North American Forestry Commission.
20. Negotiated with Transport Canada on improvements to standing order 028 on railway forest fire prevention.
21. Lobbying Forestry Canada to establish a Forest Fire Research Co-ordinator's position.

APPENDIX IV

CCFFM PRESS RELEASE

NEWS RELEASE COMMUNIQUÉ

CANADIAN FORESTRY ASSOCIATION
A FEDERATION OF PROVINCIAL FORESTRY ASSOCIATIONS
185 SOMERSET ST. W. — OTTAWA, CANADA K2P 0J2 — (613) 232-1815

ASSOCIATION FORESTIÈRE CANADIENNE
UNE FÉDÉRATION DES ASSOCIATIONS FORESTIÈRES PROVINCIALES
185, RUE SOMERSET OUEST, OTTAWA, CANADA K2P 0J2 — (613) 232-1815

FOR IMMEDIATE RELEASE

FEBRUARY 3, 1992

FOREST FIRE OFFICIALS MEET IN OTTAWA

The 40th Annual Meeting of the Canadian Committee on Forest Fire Management, hosted by Forestry Canada, met in Ottawa January 29 to 30, 1992.

The Committee consists of senior forest fire management from all provinces and territories, Forestry Canada and the Canadian Parks Service, forest industry, Canadian forest universities and technical schools, the Canadian Interagency Forest Fire Centre and the Canadian Forestry Association.

The first meeting of the Committee also took place in Ottawa in 1952. At that time fire management officials met to discuss forest fire issues of mutual concern throughout Canada, to foster information and technology exchange and to identify fire research issues. Their efforts in these areas have been extremely successful. Annual meetings have continued ever since.

One of the major accomplishments of the Committee was assistance and support in the development the Canadian Interagency Forest Fire Centre in Winnipeg. This small fire suppression group co-ordinates the formal sharing of fire suppression personnel and equipment when any agency encounters a serious outbreak of forest fires. As Canada seldom has fire outbreaks at the same time the movement of personnel and equipment does not place undue risk on the agency providing the resources. By sharing resources throughout Canada hundreds of thousands of tax dollars are saved annually.

Another key issue that is always of concern to fire managers is in the field of fire management research. The Canadian Committee on Forest Fire Management identifies research issues and recommends priorities in order to avoid duplication of effort. In many instances funds are provided by both the Federal and Provincial governments in order to achieve mutual goals. Fire management research programs and results will be of primary importance to all members.

For further information contact:

Serge Poulin, Executive Secretary
Canadian Committee on Forest Fire Management
210 - 301 Weston Street
Winnipeg, Manitoba R3E 3H4

APPENDIX V

EDUCATION SUBCOMMITTEE REPORT

A SUMMARY OF FOREST FIRE-RELATED ACTIVITIES BY FORESTRY SCHOOLS ACROSS CANADA

SUMMARY OF FOREST FIRE-RELATED ACTIVITIES BY FORESTRY SCHOOLS ACROSS CANADA

SCHOOL	# STAFF	TEACHING		GRADUATE STUDENTS		PUBLICATIONS	
		TOTAL	FIRE	TOTAL	FIRE	TOTAL	FIRE
UBC	1	4	2	2	1	4	3
U OF A	3	8	3	21	12	16	10
LAKEHEAD	1	3	3 *		NIL		NIL
U OF T	1	4	2	3	2	3	2
LAVAL	0	1	1		NIL		NIL
UNB	1	4	2	3	2		NIL

* Also provides fire for tech program.

January 1992
b:\cores21/ccffm1.92

FIRE STOP III

National Wildfire Coordinating Group

FIRESTOP III

1995

International Evaluation of Wildland Fire Suppression Technology for the 21st Century

Forestry Canada Forêts Canada

Canadian Committee on Forest Fire Management

FIRESTOP III

Proposal

for

Forestry Canada

and the

Canadian Committe on Forest Fire Management

Forestry Canada Forêts Canada

Canadian Committee on Forest Fire Management / Comité canadien de gestion des feux de forêt

by

CALIFORNIA DEPARTMENT of FORESTRY and FIRE PROTECTION

C D F

FORESTRY

FIRE

California Department of Forestry and Fire Protection

INTRODUCTION

THE NATIONAL WILDFIRE COORDINATING GROUP (NWCG) IS INTERESTED IN CONDUCTING AN EVALUATION OF WILDLAND FIRE EQUIPMENT AND TECHNOLOGY TO MEET THE NEEDS OF WILDLAND FIRE AGENCIES INTO THE FIRST DECADE OF THE TWENTY-FIRST CENTURY. FORESTRY CANADA AND THE CANADIAN COMMITTEE ON FOREST FIRE MANAGEMENT (CCFFM) HAVE EXPRESSED THE SAME NEED.

THE CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION (CDF) HAS BEEN DIRECTLY INVOLVED IN THE EVALUATION AND RESEARCH OF STATE-OF-THE-ART WILDLAND FIRE FIGHTING EQUIPMENT AND RELATED TECHNOLOGY THROUGH A PROGRAM KNOWN AS "FIRESTOP." THERE HAVE BEEN TWO RESEARCH EFFORTS UNDER THIS PROGRAM WHICH ARE NOTABLE.

- FIRESTOP. CDF BEGAN THE PROGRAM 37 YEARS AGO WITH AN INTERAGENCY EFFORT COMMITTED TO RESEARCH THE BUILD-UP AND BEHAVIOR OF LARGE WILDLAND FIRES AND PROVIDE NEW AND INNOVATIVE WAYS TO PREVENT AND SUPPRESS THESE CONFLAGRATIONS. THE NAME OF THAT PROJECT: "FIRESTOP." THE CONCEPT OF FIRESTOP WAS TO PREPARE CALIFORNIA'S WILDLAND FIRE AGENCIES FOR THE FUTURE. MANY OF THE FIRE FIGHTING TOOLS IN USE TODAY ARE A RESULT OF THAT ORIGINAL RESEARCH, INCLUDING THE AIR ATTACK PROGRAM, FIRE RETARDANTS, VEGETATION MANAGEMENT, AND MOST IMPORTANTLY, FIRE BEHAVIOR MODELS FOR TACTICS AND STRATEGY USED TO SUPPRESS WILDLAND FIRES.

- FIRESTOP II. THE MOST RECENT EVENT IN THE FIRESTOP PROGRAM WAS HELD IN 1989 AT THE CAMP PENDLETON MARINE CORPS BASE IN CALIFORNIA. THE FOCUS WAS DEVELOPMENT, TESTING, AND EVALUATING NEW EQUIPMENT AND TECHNOLOGY NEEDED TO COMBAT WILDLAND FIRES IN THE FUTURE. A MUCH CLEARER PICTURE WAS PROVIDED AS TO THE EQUIPMENT AND TECHNOLOGY NEEDED FOR THE 1990s AND BEYOND. AS A RESULT, CDF IS INTEGRATING FIRE FIGHTING FOAM INTO ENGINES AND HELICOPTERS, EVALUATING A TURBO-ENGINED AIRCRAFT TO REPLACE AN AGING FLEET OF AIRTANKERS, PURCHASING THE LATEST TECHNOLOGY INFRARED DETECTION AND MAPPING EQUIPMENT, AND INITIATING A RESEARCH PROJECT TO GIVE US AN EFFECTIVE RESPIRATOR FOR WILDLAND FIRE HAZARDS OF SMOKE.

PROPOSAL

CDF PROPOSES TO CONTINUE THE FIRESTOP PROGRAM CONCEPT AND SCHEDULE DEMONSTRATIONS AND EVALUATIONS EVERY FIVE TO TEN YEARS, DEPENDING ON CHANGES IN TECHNOLOGY. THE NEXT PHASE WILL BE HELD IN 1995, AND IT SHOULD BE EXPANDED INTO AN INTERNATIONAL EVENT. TO ACHIEVE THIS, CO-SPONSORSHIP WILL BE NECESSARY, INCLUDING AN INTERNATIONAL STEERING COMMITTEE THAT WILL PLAN FIRESTOP III. THE PROPOSED SPONSORS WOULD INCLUDE FORESTRY CANADA AND THE CANADIAN COMMITTEE ON FOREST FIRE MANAGEMENT, NATIONAL WILDFIRE COORDINATING GROUP, AND THE CDF. THE STEERING COMMITTEE WOULD BE MADE UP OF MEMBERS OF THE FIRE EQUIPMENT AND RESEARCH SUBCOMMITTEES OF THESE SPONSOR GROUPS AND WOULD BE CHAIRED BY CDF.

- OBJECTIVES

WILDLAND FIRE MANAGERS HAVE NOTED SOME SIGNIFICANT TRENDS IN RECENT YEARS:

- RAPIDLY CHANGING WILDLAND FIRE PROBLEMS ARE EXACERBATED BY THE GROWING COMPLEXITY OF FIRES AT THE URBAN/WILDLAND INTERMIX. HOMES AND LIVES ARE BEING LOST TO WILDFIRES AT AN ALARMING RATE.

- CHANGES IN WEATHER AND CLIMATAL PATTERNS HAVE RESULTED IN LARGE, REGIONAL AREAS OF DROUGHT IN RECENT YEARS. THIS HAS PROVIDED DRAMATIC CHANGES IN LIVE VS DEAD FUEL LOADS THAT ARE UNPRECEDENTED.

- TECHNOLOGY IS CHANGING RAPIDLY - COMPUTERS, FACSIMILE EQUIPMENT, AUTOMATION - CREATING A NEED FOR A CONCENTRATED AND CONSOLIDATED EFFORT OF RESEARCH AND DEVELOPMENT TO EVALUATE STATE-OF-THE-ART EQUIPMENT AND FIRE PROTECTION PROCEDURES.

TO ADDRESS THESE AND OTHER CONCERNS OF WILDLAND AGENCIES, THE SPONSORS OF FIRESTOP III WILL COLLABORATE IN IDENTIFYING AND DEFINING THE MOST APPROPRIATE NEW EQUIPMENT AND TECHNOLOGY FOR COMBATING WILDLAND FIRES IN THE FUTURE. THIS TYPE OF INTELLIGENCE GATHERING IS BEST FACILITATED BY A FIRE EQUIPMENT DISPLAY AND DEMONSTRATION.

A VARIETY OF ADVANCED TECHNOLOGIES FOR WILDLAND FIRE FIGHTING WILL BE EVALUATED .

- REVIEW NEW CONCEPTS IN FIRE ENGINES DESIGNED TO PROVIDE BOTH WILDLAND AND STRUCTURE PROTECTION.

- EVALUATE THE LATEST GENERATION AIRCRAFT, BOTH FIXED WING AND ROTARY FOR RETARDANT APPLICATION AND COMMAND AND CONTROL.

- EVALUATE FOAM AND FIRE RETARDANT SYSTEMS.

- TEST STATE-OF-THE-ART INFRARED DETECTION AND MAPPING EQUIPMENT.

- TEST NEW EQUIPMENT AND METHODS FOR FIRELINE CONSTRUCTION.

- REVIEW THE NEWEST TECHNOLOGY IN SAFETY CLOTHING AND PROTECTIVE EQUIPMENT.

- TEST FACSIMILE EQUIPMENT FOR TRANSMITTING DATA IN REAL TIME.

- EVALUATE COMMUNICATIONS EQUIPMENT WITH EMPHASIS ON SATELLITE AND OTHER AERIAL PLATFORMS FOR REMOTE RECEPTION ON THE GROUND.

- EVALUATE REMOTE AUTOMATED WEATHER STATIONS USING ADVANCED PROGRAMS FOR MACROSCALE WEATHER ANALYSIS TO PREDICT FIRE BEHAVIOR.

- OTHER ITEMS

DURING THE CONDUCT OF THIS PROGRAM, THE STEERING COMMITTEE WILL COORDINATE ALL ACTIVITIES FOR THE SPONSORS.

THE STEERING COMMITTEE MEMBERS WILL BE IDENTIFIED UPON APPROVAL OF THIS PROPOSAL BY THE PROPOSED SPONSORS.

AN INITIAL MEETING OF THE INTERNATIONAL STEERING COMMITTEE WOULD BE HELD DURING JANUARY 1992 IN SACRAMENTO CALIFORNIA.

THE OBJECTIVES OF THE GROUP'S FIRST MEETING WILL INCLUDE A COMPLETE NEEDS ANALYSIS AND THE DEVELOPMENT OF THE ORGANIZATIONAL STRUCTURE, WORK PLAN, AND TIME-LINE CHART.

APPENDIX VII

FOREST FIRE EQUIPMENT WORKING GROUP REPORT

STRUCTURE, ORGANIZATION, AND TERMS OF REFERENCE

CANADIAN COMMITTEE ON FOREST FIRE MANAGEMENT
RESEARCH AND TECHNOLOGY TRANSFER SUBCOMMITTEE
FOREST FIRE EQUIPMENT WORKING GROUP

1. REVIEW OF FFEWG "TERMS OF REFERENCE"

Mr. Ed MacAuley, sitting in for Mr. Dan McAskill as CCFFM liaison representative led the discussion on this topic. In light of changes in the structure and funding of the CCFFM and the resignation of the permanent co-ordinator/chairman of the Forest Fire Equipment Working Group Mr. MacAuley outlined the need to re-assess the role and structure of the FFEWG committee.

Following considerable discussion the following organization and structure is being proposed.

PROPOSED ORGANIZATION AND STRUCTURE

(i) Committee Name

Forest Fire Equipment Working Group (FFEWG)

(ii) Chairman

- To be selected from the attached rotation, host province or territory
- To hold position for one year (April 1st to March 31st)
- To chair the Annual Meeting of FFEWG and host same if in Canada
- To provide the secretary for the Annual Meeting and produce the minutes
- To assist in development of a proposed work plan to be approved at the Annual Meeting of CCFFM
- To attend the Annual Meeting of CCFFM with the Co-ordinator to present the work plan for approval.

Co-ordinator

- To be Forestry Canada employee
- To ensure continuity co-ordinator will be permanent
- To represent working group at other National and International Meetings
- To ensure National Program co-ordination and technical standard
- To assist Chairman in organizing Annual Meetings
- To assist Chairman in production of proposed work plan
- To attend the Annual Meeting of CCFFM with Chairman to present the work plan for approval.

(iii) Membership

Membership on the FFEWG will be regional and comprised of representatives from the following agencies:

1. BC-YT
2. ONT
3. SASK-MAN
4. QUE
5. ALTA-NWT
6. NFLD-NS-NB-PEI
7. PNFI, FC
8. CIFFC
9. FEWT/USA (Advisor)
10. Canadian Parks Service

(iv) Meeting Rotation

Meetings will be rotated from west to east as follows:

1. BC - YT
2. ONT
3. SASK - MAN
4. QUE
5. ALTA - NWT
6. NFLD - NB - NS - PEI
7. PNFI, FC
8. Parks Canada

The Terms of Reference for the FFEWG were also reviewed. With the exception of some minor changes the Terms of Reference proposed for the FFEWG are as follows:

TERMS OF REFERENCE

1. To provide a forum for exchange of information on research and development of forest fire equipment and related products.

2. To develop work plans for specific tasks either as identified by FFEWG or CCFFM.

3. To liaison with the United States National Wildfire Co-ordinating Group, Fire Equipment Working Team and other relevant international fire equipment agencies.

4. To promote increased technology transfer and communication among fire management agencies on fire equipment issues through publications, workshops, seminars, etc.

5. To develop and upgrade specifications for National Forest Fire Equipment and related products.

6. To present the annual report of the working group and recommend the work plan to CCFFM at their Annual Meeting.

APPENDIX VIII

FOREST FIRE EQUIPMENT WORKING GROUP

WORK PLAN

Canadian Committee on Forest Fire Management
Forest Fire Equipment Working Group
Proposed Work Plan - 1992

TOPIC	DISCUSSION	ACTION	TIME
		FFEWG INITIATIVES	
1) National Technology and Development Centre	It was recommended that there was a strong requirement for a National Technology and Development Centre. The purpose of the Centre would be to undertake a wide range of equipment evaluation, development and specification certification as well as coordinate the individual agency test program among Canadian Fire Management Agencies and between Canada and the United States. Forestry Canada, PNFI presently support a program with the mandate to undertake the above at a reduced level.	The CCFFM felt that the idea is a good one and all would benefit from such a centre. Many factors must be considered prior to any recommendations and the CCFFM has taken this recommendation under advisement.	Awaiting decision from Executive of CCFFM.
2) Personnel protective gear	A survey on "Personal Protective Gear" has been undertaken by both FFEWG and CIFFC, RMWG. Information from the NFPA and the various WCB's in Canada has been gathered. A preliminary report was prepared for discussion at the 1990 CCFFM Annual Meeting. Presently all Fire Management agencies maintain their own standards and for the present they have decided not to pursue Canada - wide standardization in the area of fire fighting protective clothing.	NFPA are in process of developing standards for wildfire protective clothing and other protective gear. FEWT is working with the USDA Forest Service, MTDC on the NFPA committee and will ensure that FFEWG members remain informed. FFEWG will continue to monitor developments in this area.	Ongoing

TOPIC	DISCUSSION	ACTION	TIME
3) Underwriters' Laboratories of Canada, National Hose and Coupling Standards	Standards for percolating forestry hose - ULC-S519M and non-percolating hose - ULC-S518M have been finalized and distributed effective Nov. 29, 1992. The proposed printing of the Second Edition of "Standard for External-Lug Quick Connect Couplings and Adaptors for Forestry Fire Hose, CAN/ULC S551-M86 has been deferred until the ULC Coupling Subcommittee has investigated tests performed at ULC regarding immersion testing.	Hose Standards, ULC-S519M and ULC-S518M will be distributed to FFES members when available. A meeting of the ULC Hose Coupling Subcommittee will be scheduled for February 1992 to complete the standard. On the same dates the ULC Forestry Fire Hose Subcommittee will initiate work on the proposed synthetic forestry fire hose standards. R. Vollebekk, K. Barth, D. Higgins, G. Ramsey, S. Grimaldi Note: In order to ensure receipt of National Standard forged type couplings tenders should specify that couplings be ULC listed and <u>also</u> meet all the requirements of ULC Standard CAN/ULC S551-M-86. If not specified you may receive a cast type coupling.	Ongoing
4) NRC, Associate Committee on Forest Fire Protection (ACFFP) Ordering Descriptions Note: ACFFP is now CCFFM	ACFFP Ordering Descriptions provide specifications requirements for 17 fireline accessory items. The descriptions are to be upgraded for use in 1992. PNFI will screen for standard reference correctness and several agencies will share the task of upgrading to current requirements.	R. Vollebekk. G. Conacher S. Grimaldi, William Mawdsley D. Higgins, W. Martin Members of the FFEWG have been assigned Ordering Description items to complete and to date several have have been finalized and circulated for review. B. Buck has agreed to undertake the task of formalizing the description in final format.	Sept 1992
5) Fire Equipment Standards	Standards for the Pulaski, Fire Shovel, Fire Axe and Fire Rake were completed and presented to the CIFFC Resource Management Working Group for implementation in 1989. The	Proposed amendments (metal hardness) to the standards will be addressed at the 1992 meeting. All equipment requiring national standards will be identified at the meeting.	Sept 1992

TOPIC	DISCUSSION	ACTION	TIME
	standards require review due to concerns expressed by industry on meeting some of the requirements contained within the documents.		
6) Equipment Needs Survey	An Equipment Needs Survey was completed by all agencies. However due to the format of the survey it was difficult to determine fire equipment need priorities across the country. It was agreed that the present format required revision prior to continuing the process to determine forest fire equipment need priorities.	Guidelines for a revised Equipment Needs Survey will be developed during the winter. Another survey will be undertaken to determine equipment needs. Results will be discussed at the 1992 meeting. S. Grimaldi, R. Vollebekk - (Survey Format)	April 1992
7) Smoke Signals/ Signaux de Fumee	A sufficient number of appropriate articles have been obtained and are in the final phase of editing. Articles for the fifth edition are being collected.	G. Ramsey, D. Higgins, G. Guay and F. Larocque	April 1992
8) FFEWG Membership	As approved by the CCFFM the membership of the FFEWG is as follows: Steve Grimaldi, BCFS/Yukon William Mawdsley, Alta./NWT Glenn Conacher, Man./Sask. Reider Vollebekk, Ont. Fernand Larocque, Que. Wayne Martin, Atlantic/Maritimes Tom Johnston, CIFFC Gordon Ramsey, FC Bob Joens, FEWT		
9) "Foam Applications for Wildland and Urban Fire Management", Newsletter	The Foam Applications publication continues to be an efficient vehicle for exchanging timely information on matters dealing with wildland foam.	It was recommended that Canada accept the responsibility every 2 to 3 years to publish an issue of the "Foam Applications" newsletter.	As required

TOPIC	DISCUSSION	ACTION	TIME
	The project undertaken by the NWCG, FEWT, Foam Task Group and supported by the CCFFM, FFEWG and Forestry Canada now publishes three issues annually. The FFEWG and PNFI accepted the responsiblity for funding and publishing Vol 4, No 1 in August 1991. The CCFFM contributed $2000.00 toward the publishing costs of $3200.00 for printing 7500 copies. Mailing list distribution costs of $1400.00 were also funded by PNFI. Approximately 500 copies were distributed throughout Canada and several thousand throughout the United States and other countries.	In order for the publication to remain viable, personnel from each Canadian fire management agency must be encouraged to submit articles for inclusion in the publication. It is recommended that the FFEWG accept the responsibility for funding and publishing the Foam Newsletter on a 2 or 3 year cycle. G. Ramsey to coordinate Canadian input and be responsible for distribution in Canada.	As required
10) Fire Stop III 1995, International Evaluation of Wildland Fire Suppresion Technology for the 21st Century	Fire Stop III has been scheduled to be held in California in 1995. Jack Wiest, Staff Chief, Fire Planning, Research and Cooperative Fire, California Department of Forestry (CDF) attended the September Joint Meeting in Halifax and presented the formal proposal (see minutes) inviting CCFFM, FFEWG and Forestry Canada to be co-sponsors with NWCG, FEWT and CDF of Fire Stop III. Forestry Canada (PNFI) has proposed the allocation of $50,000 through the Green Plan Program. The money will primarily be used to support evaluation team members (FFEWG) from Canada. A Steering Committee is being formed and will consist of Jack Wiest, Chairman, CFD, Bob Joens, NWCG, FFWT and a Canadian representative.	The Steering Committee will meet in February 1992 at Sacramento, Ca. to formulate plans for Fire Stop III. It was recommended that G. Ramsey represent the CCFFM, FFEWG on the Steering Committee and coordinate Canadian input into the program.	1991-1995

TOPIC	DISCUSSION	ACTION	TIME
11) Joint equipment evaulations FEWT and FFEWG	FEWT and FFEWG agreed upon the merit of exchanging prototype equipment and products for the purpose of evaluation and accreditation. The procedure may result in the earlier adoption of useful equipment or products by fire management agencies.	The exchange of prototype equipment will be faciliated through R. Joens and G. Ramsey	As required.
12) Facility sharing Canada/United States	The USDA, Forest Service support specialized technology and development centres - San Dimas Technology and Development Center and Missoula Technology and Development Center. The Centers undertake a variety of specialized qualification tests on a wide range of equipment as well as the development of new fire suppression related technology. The cooperative use of these facilities and others would be of significant value.	Arrangement for tests will be coordinated through R. Joens and G. Ramsey	As required.
13) Joint Meetings of the CCFFM, FFEWG and the NWCG, FEWT.	The liasion between the CCFFM, FFEWG and the NWCG, FEWT has proven most beneficial over the years. Many positive results have been obtained through the Joint Meetings held at Gander, NF; Abbotsford, B.C.; Quebec City, Que.; San Dimas, Ca.; and Halifax N.S. The continuation of holding joint meetings every two years has been highly recommended by both Committees.	The next joint meeting of the CCFFM FFEWG and NWCG, FEWT is scheduled to be held in the United States in 1993. R. Joens and G. Ramsey will coordinate the program with respect to the date and location.	Sept. 1993
14) Directory of Forest Fire Equipment Personnel	The latest update was presented at the September Joint Meeting held at Halifax, Nova Scotia.	B. Hutchins and R. Vollebekk will prepare and distribute the current issue and arrange for update on a two year cycle.	Dec. 1991

TOPIC	DISCUSSION	ACTION	TIME
15) Coordinating groups for special projects	It was agreed by FEWT and FFEWG (San Dimas, Oct. 1989) that cooperation on major equipment development evaluation programs would be beneficial in order to reduce a significant duplication of effort (i.e. Tasmania Laser Ignition Device). The duplication of effort can be reduced significantly through increased communication between the two committees.	Communication on special projects will be coordinated through R. Joens and G. Ramsey.	As required.
16) FFEWG, 1992 Annual Meeting	In keeping with the structrue and terms of reference the next meeting of the FFEWG will be held in Whitehorse, Yukon Territory.	Dick Seaman, Incoming Chairman Gord Ramsey, Co-ordinator	Sept. 1992

Prepared by
W. S. Martin, Chairman, FFEWG
G. S. Ramsey, Co-ordinator, FFEWG

APPENDIX IX

RESEARCH, DEVELOPMENT AND TECHNOLOGY TRANSFER SUBCOMMITTEE

TERMS OF REFERENCE

You will find the draft terms of reference for the Subcommittee on Research Development and Technology below. This will be reviewed during the closed session on Wednesday morning. One of the primary goals at this meeting will be a discussion of priorities and possibly, if there is concensus, striking the initial task group(s).

DRAFT TERMS OF REFERENCE
SUB-COMMITTEE ON RESEARCH
DEVELOPMENT AND TECHNOLOGY TRANSFER

1. The sub-committee is chaired by the Vice-chair of the CCFFM Executive Committee.

2. The sub-committee develops and implements an annual planning process that encompasses the identification of national fire research development and technology transfer issues and mechanisms to promote and support research, development, and technology transfer programs that address those issues.

3. The sub-committee will identify task groups to address identified priority research issues. Task groups will be comprised of committee members, staff of the member agencies nominated by that agency, and/or researchers and others qualified to address the issue.

4. The sub-committee, through these task groups, will provide: detailed definition of requirements; establish project objectives; develop project plans; coordinate logistical and other support that can be provided by the CCFFM and its members to the research program and the research agencies involved; carry out on-going reviews and evaluation of the research; and report to the CCFFM annually on results.

5. The sub-committee ensures that research results are effectively transferred into operational use and practise. The sub-committee will include technology transfer plans in specific research projects to ensure research results and new technologies are effectively communicated to all members. The sub-committee promotes the use of publications, workshops and agency visits for technology transfer.

6. The sub-committee promotes the exchange of research results and technology transfer internationally to ensure Canadian agencies have access to developments outside Canada and to ensure Canadian research and technology is available internationally.

APPENDIX X

RESEARCH, DEVELOPMENT AND TECHNOLOGY TRANSFER SUBCOMMITTEE

PRIORITY NEEDS

CCFFM

RESEARCH, DEVELOPMENT AND TECHNOLOGY TRANSFER SUBCOMMITTEE PRIORITY NEEDS BASED ON 1991 MEMBER'S REPORTS AND DISCUSSION AT 1992 CCFFM MEETING

1. Fire Behaviour, especially fine tuning of spread rate equations to specific regions.
2. Socio-Economics impacts, namely, rationalization of the levels of forest fire protection costs.
3. Foam use guidelines.
4. Fire occurrence prediction.
5. Fire suppression especially productivity rates.
6. Improve infrared detection and data transferral capabilities.

OTHER PRIORITIES INCLUDE - preparedness planning; and technology transfer; prescribed fire; health & safety; and equipment development.

ANOMALIES:

- Next generation of computers.
- Training system efficacy and retention testing.
- Media effectiveness research and testing.

APPENDIX XI

CCFFM BUDGET 1992/93

CANADIAN COMMITTEE ON FOREST FIRE MANAGEMENT
BUDGET
APRIL 1, 1992 - MARCH 31, 1993

INCOME:

CCFFM funding formula total	$30,770.00
Interest of 5% on half amount	750.00
TOTAL	**$31,520.00**

EXPENSES:

Forest Fire Equipment Working Group	
-Travel subsidy members	$3,500.00
-Travel subsidy FFEWG chair	700.00
-Foam newsletter contribution	2,000.00
-Smoke Signals contribution	2,000.00
Annual Meeting (Winnipeg Nov 92)	
-Audio visual	N\A
-Room & Coffee	$1,000.00
-Travel & Executive	4,000.00
-Minutes, Exchange of Info, Directory	6,000.00
-Gifts: Guest Speaker	100.00
CCFFM Chair to CCFDM	1,200.00
Communication: Brochures, Magazine Article	2,500.00
Administration: Executive Secretary	8,500.00
Miscellaneous	20.00
TOTAL	**$31,520.00**

NOTE:

Foam Newsletter cost ≈ $4,500.00 - $5,000.00 every 2 to 3 years.
Smoke Signal cost ≈ $3,500.00 plus mailing.
CCFFM Executive explore cost recovery potential of Directory.
CCFFM Executive review appropriate use of executive travel.